Amendments to the Specification: Please replace the paragraph beginning on page 8, line 15, with the following amended paragraph:

The term "storage mechanism" includes any type of memory, storage device or other mechanism for maintaining instructions or data in any format. "Computer-readable medium" is an extensible term including any memory, storage device, and/or storage mechanism. ~~, and other storage and signaling mechanisms including interfaces and devices such as network interface cards and buffers therein, as well as any communications devices and signals received and transmitted, and other current and evolving technologies that a computerized system can interpret, receive, and/or transmit.~~ The term "memory" includes any random access memory (RAM), read only memory (ROM), flash memory, integrated circuits, and/or other memory components or elements. The term "storage device" includes any solid state storage media, disk drives, diskettes, networked services, tape drives, and other storage devices. Memories and storage devices may store computer-executable instructions to be executed by a processing element and/or control logic, and data which is manipulated by a processing element and/or control logic. The term "data structure" is an extensible term referring to any data element, variable, data structure, database, and/or one or more organizational schemes that can be applied to data to facilitate interpreting the data or performing operations on it, such as, but not limited to memory locations or devices, sets, queues, trees, heaps, lists, linked lists, arrays, tables, pointers, etc. A data structure is typically maintained in a storage mechanism. The terms "pointer" and "link" are used generically herein to identify some mechanism for referencing or identifying another element, component, or other entity, and these may include, but are not limited to a reference to a memory or other storage mechanism or location therein, an index in a data structure, a value, etc. The term "associative memory" is an extensible term, and refers to all types of known or future developed associative memories, including, but not limited to binary and ternary content addressable memories, hash tables, TRIE and other data structures, etc. Additionally, the term "associative memory unit" may include, but is not limited to one or more associative memory devices or parts thereof, including, but not limited to regions, segments, banks, pages, blocks, sets of entries, etc.